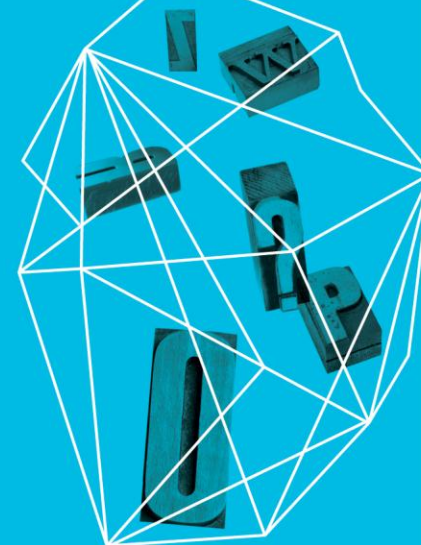


Roadmap Toward a More Secure and Resilient Cyber Ecosystem

Security in
knowledge



Moderator:

Peter Fonash, CTO
Department of Homeland
Security
Peter.Fonash@dhs.gov

Harry Raduege,
Chairman, Center for
Cyber Innovation

Deloitte Services
hraduege@deloitte.com

Session ID: **SECT-R33**

Session Classification: **Security Trends & Innovation**

Panelists:

Phyllis Schneck,
VP & CTO
McAfee
Phyllis.Schneck@mcafee.com

Donna Dodson,
Chief, CSD and
ExecDir, NCCoE

NIST
Donna.Dodson@nist.gov

Richard Struse, TA
Department of Homeland
Security
Richard.Struse@dhs.gov

Gary Gagnon,
Sr. VP and Corporate
Dir of Cybersecurity

MITRE
gjjg@mitre.org

Automated Collective Action

- ▶ **Static Defense** (put the infrastructure in the best possible condition – hygiene)

- ▶ **Prevent**

- ▶ Continuous Authentication
 - ▶ General Awareness & Education
 - ▶ Interoperability
 - ▶ Machine Learning
 - ▶ Moving Target
 - ▶ Privacy
 - ▶ Risk-Based Data Management
 - ▶ Security Built in
 - ▶ Situational Awareness
 - ▶ Tailored Trustworthy Spaces

- ▶ **Detect**

- ▶ Continuous monitoring
 - ▶ Behavior monitoring
 - ▶ Sensors

- ▶ **Dynamic Defense** (respond to situation)

- ▶ **Real time Information sharing**

- ▶ Continuous information sharing and exchange with cloud
 - ▶ Situational Awareness
 - ▶ Analysis

- ▶ **Respond**

- ▶ Automated Selection & Assessment of Defensive Actions
 - ▶ Adjustments, automated COAs
 - ▶ Share courses of action

- ▶ **Recover**

- ▶ Automated COAs
 - ▶ Manual cleaning, patching, config.



Automated Information Sharing
(Trusted Broker/Exchange Agent)

— TOPICS TO BE COVERED

- ▶ **Current activities**
- ▶ **Additional Steps required to achieve Secure and Resilient Cyber Ecosystem**
- ▶ **Barriers**

